

CLAIMS

WE CLAIM:

1. A process for making and applying a coating composition using a plural component apparatus comprising:

choosing at least two non-like components for the coating composition from components in the plural component apparatus;

the plural component apparatus having:

- A. at least one binder component,
- B. at least one hardener component, and
- C. at least one component being a binder or a hardener, such component having a different reactivity from its like component A or B;

selecting a mixing ratio for the at least two non-like components of the coating composition; and

mixing the components of the coating composition and applying the coating composition with the plural component apparatus; whereby a plurality of coating compositions with varying properties can be made and applied from the components in the plural component apparatus.

2. The process of claim 1 further comprising drying the coating composition between 60 degrees F and 160 degrees F.

3. The process of claim 1 wherein component A is a binder and component B is a hardener with slow reactivity and component C is a hardener with fast reactivity.
4. The process of claim 3 wherein component A is a hydroxyl functional binder and components B and C are isocyanate functional hardeners.
5. The process of claim 4 wherein the mixing ratio is selected such that the volume percentage of component the shared component is in between 5% and 95%.
6. The process of claim 5 wherein the mixing ratio is selected such that the volume percentage of the shared component is in between 10% and 90%.
7. The process of claim 1 wherein said substrate is a vehicle surface panel with said coating composition comprising a primer to be applied as an external coating to said panel, with there being a first component (A) comprising a binder (the shared component), and there being at least one of a second component (B) and third component (C), B comprising a sanding hardener and C comprising a wet-in-wet hardener, the volumetric ratio of A to B+C ranging from 100:80 to 100:60.
8. The process of claim 1 further comprising a component D such that component C is a binder having a different reactivity from its like component A or B and component D is a hardener having a different reactivity from its like component A or B.